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☐ 1. Document ID: JP 2001522927 W, DE 19749123 A1, WO 9924529 A1, EP 1029021 A1, KR 2001031812 A

L1: Entry 1 of 1

File: DWPI

Nov 20, 2001

DERWENT-ACC-NO: 1999-289128
 DERWENT-WEEK: 200204
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TITLE: Crosslinkable cholesteric ester or carbonate oligomers - for production of cholesteric polymer networks and pigments

INVENTOR: KRAWINKEL, T; KRICHELDORF, H R ; SCHUHMACHER, P

PATENT-ASSIGNEE:

ASSIGNEE	CODE
BASF AG	BADI

PRIORITY-DATA: 1997DE-1049123 (November 6, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2001522927 W	November 20, 2001		050	C08G063/12
<u>DE 19749123 A1</u>	May 12, 1999		026	C08G063/40
WO 9924529 A1	May 20, 1999	G	000	C09K019/00
EP 1029021 A1	August 23, 2000	G	000	C09K019/00
KR 2001031812 A	April 16, 2001		000	C09K019/00

DESIGNATED-STATES: DE GB JP KR US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE DE FR GB IT NL

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2001522927W	November 6, 1998	1998WO-EP07110	
JP2001522927W	November 6, 1998	2000JP-0520527	
JP2001522927W		WO 9924529	Based on
DE 19749123A1	November 6, 1997	1997DE-1049123	
WO 9924529A1	November 6, 1998	1998WO-EP07110	
EP 1029021A1	November 6, 1998	1998EP-0961151	
EP 1029021A1	November 6, 1998	1998WO-EP07110	
EP 1029021A1		WO 9924529	Based on
KR2001031812A	May 4, 2000	2000KR-0704882	

INT-CL (IPC): C08 G 63/12; C08 G 63/181; C08 G 63/193; C08 G 63/197; C08 G 63/20; C08 G 63/40; C08 G 63/50; C08 G 63/54; C08 G 63/672; C08 G 63/685; C08 G 64/22; C09 B 67/00; C09 B 67/20; C09 B 69/10; C09 D 5/00; C09 D 5/36; C09 D 17/00; C09 D 167/00; C09 D 167/02; C09 D 169/00; C09 K 19/00; C09 K 19/38

ABSTRACTED-PUB-NO: DE 19749123A
 BASIC-ABSTRACT:

NOVELTY - Cholesteric oligomers are new.

DETAILED DESCRIPTION - The cholesteric oligomers are of formula: (Z1nY1)(AY2)q(BY3)pZ2 (I)

where: n = 0-1; q = 0-2; p = 1-20; A = a chiral group; B = a mesogenic group; Y1, Y2 and Y3 = CO-O, O-CO or O-CO-O; the q (AY2) units and the p (BY3) units can be in any order; the q A groups can be the same or different and the p B groups can be the same or different; Z1 and Z2 = QW; Q = a bond or an optionally substituted alkylene or arylene spacer; W = a crosslinkable heterocyclic group.

INDEPENDENT CLAIMS are made for cholesteric polymer networks obtainable by heating the cholesteric oligomers, preferably at 250-300 deg. C, and mono- or multilayer pigments comprising the cholesteric oligomers or the cholesteric polymer networks.

USE - The cholesteric oligomers can be used as coating materials or for producing pigments. The cholesteric polymer networks or pigments can be used in the automobile and automobile accessories sector, in the electronic data processing, leisure, sports and games sectors, as optical components (e.g. polarizers or filters), in the fields of cosmetics, textiles, leather, jewelry and gifts, in writing utensils or on spectacle frames, in the building and household sectors, in printed products of all kinds, for production of paints and lacquers, for anti-counterfeiting, for coating of utensils, and for lacquering of automobiles.

ADVANTAGE - The cholesteric oligomers can be crosslinked in the anisotropic phase, especially thermally, without losing their cholesteric effect.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: CROSSLINK CHOLESTERIC ESTER CARBONATE OLIGOMER PRODUCE CHOLESTERIC POLYMER NETWORK PIGMENT

DERWENT-CLASS: A23 D21 E13 E23 F06 G02

CPI-CODES: A01-C00C; A01-D01; A01-E05; A01-E07; A01-E08; A09-A02A; D08-B; E06-A02E; E06-D03; E06-D13; E07-A02E; E07-D02; F03-F17; G02-A02B; G02-A05;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

D011 D014 D019 D022 D029 D160 D199 D611 D699 E160
E199 F011 F012 F013 F014 F015 F019 F113 F199 F422
F499 G013 G015 G019 G100 H2 H211 H212 H213 H542
H543 J0 J011 J012 J013 J014 J111 J131 J171 J2
J211 J212 J221 J222 J231 J232 J241 J242 J271 J272
J5 J522 J523 L472 L499 L660 L699 L9 L930 L999
M121 M122 M123 M125 M126 M129 M136 M137 M139 M210
M211 M214 M233 M240 M280 M281 M282 M311 M312 M313
M314 M315 M316 M320 M321 M322 M331 M332 M340 M342
M349 M381 M382 M383 M391 M392 M412 M413 M510 M511
M512 M513 M520 M521 M522 M523 M531 M532 M533 M540
M710 M903 M904 Q120 Q254 Q316 Q322 Q332

Ring Index

00996 02242

Markush Compounds

199925-GQ801-N

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; G0793 G0760 G0022 D01 D51 D53 G0908 G0873 G0817 D54 D57 D63 G1581
G1558 F47 G1661 G1650 G1649 F08 F07 G1796 G1672 F09 G2006*R F00 D05 D11 D10 D12 D13*R D14
D13 D18*R D19 D18 D20 D21 D22*R D23 D22 D24 D31 D32 D33 D34 D35 D73 D75 D76 D77 D78 D42
D43 D45 D46 D47 D50 D55 D56 D59 D60 D69 D88 D89 D90 D91 D92 D93 D94 D95 F03 F07*R F10 F12 F15
F97 F24 F27 F26 F28 F29 F31 F30 F32 F33 F34 F35*R F36 F35 F37 F38 F89 F41 F90 F91 F43 F44 F93 F70
F94 F95 F71 F72 F75 N* 5A 7A*R F* 7A Cl Br D07 D08 D25 ; H0271 ; L9999 L2471 ; L9999 L2062 ; L9999
L2186*R ; L9999 L2813 Polymer Index [1.2] 018 ; ND08 Polymer Index [2.1] 018 ; G0793 G0760 G0022 D01
D51 D53 G0908 G0873 G0817 D54 D57 D63 G1581 G1558 F47 G1661 G1650 G1649 F08 F07 G1796 G1672
F09 G2006*R F00 D05 D11 D10 D12 D13*R D14 D13 D18*R D19 D18 D20 D21 D22*R D23 D22 D24 D31
D32 D33 D34 D35 D73 D75 D76 D77 D78 D42 D43 D45 D46 D47 D50 D55 D56 D59 D60 D69 D88 D89 D90
D91 D92 D93 D94 D95 F03 F07*R F10 F12 F15 F97 F24 F27 F26 F28 F29 F31 F30 F32 F33 F34 F35*R F36
F35 F37 F38 F89 F41 F90 F91 F43 F44 F93 F70 F94 F95 F71 F72 F75 N* 5A 7A*R F* 7A Cl Br D07 D08 D25